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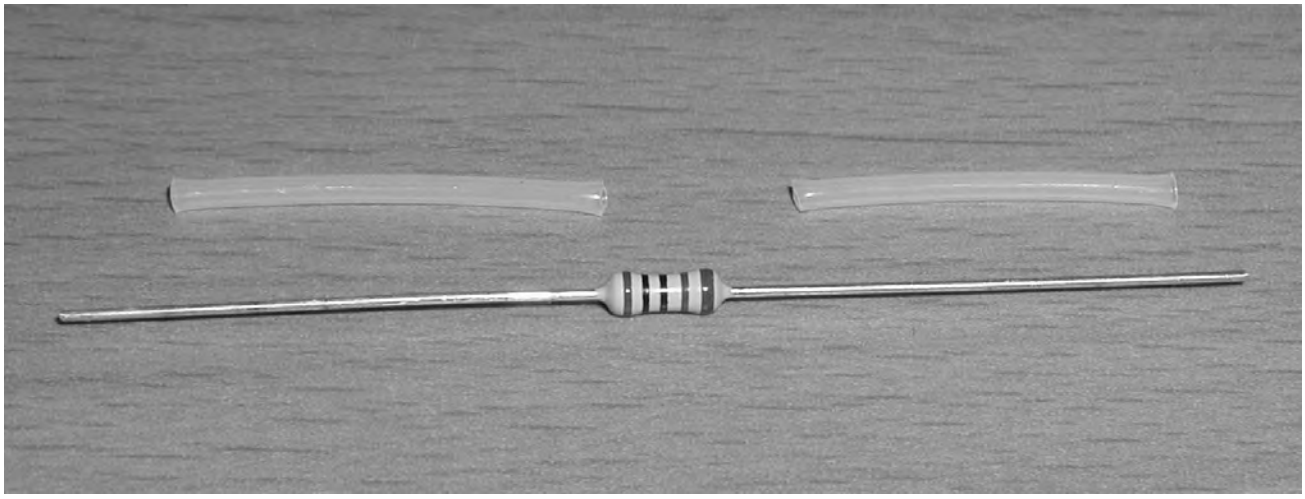
FCO Kit IO-Interface

4512 105 05921

Level 0 Documentation



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SERVICE MANUAL – UNIT 742

FCO Kit IO-Interface

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1. INTRODUCTION AND TECHNICAL DATA

1.1. PURPOSE OF MANUAL

After a new Bucky tray with code number 4512 201 0257x is installed it may happen that it is no longer possible to release an exposure on the generator after the “PREP “ function is activated.

This problem is caused by a design fault on PCB WA 102/2WA 102 or WB 102. This fault can be eliminated by the installation of an additional resistor on PCB WA102/2WA 102 or WB 102.

NOTE

This modification does not have to be performed for PCB WA 102/2WA 102 or WB 102 with code numbers ≥ 4512 108 12643 since on these PCBs this error has already been eliminated.

1.2. ITEMS SUPPLIED

4512 105 05921 Kit:”FCO Kit IO-Interface”

Consists of:

- 2322 156 11003 Resistor 10kΩ
- 4512 101 84971 Insulating hose, length:1x21mm, 1x24mm
- 4512 988 02331 This manual

1.3. COMPATIBILITY

PCB WA 102/ 2WA 102 or WB 102 with code number:

- 4512 108 08043/4/5/6/7
- 4512 108 12641/2

NOTE

In case the error occurs on a PCB WA 102/ 2WA 102 with code number 4512 108 08041/2 order “Service kit Universal IO incl. Software“ with code number 4512 104 96632.

1.4. TOOLS/MATERIAL REQUIRED

- Standard tool set TC 129 (4522 980 38262)
- Soldering iron
- Soldering tin

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1.5. SAFETY INFORMATION

The general legal and factory safety recommendations for this X-ray equipment and the following recommendations must be strictly observed!
Start of installation, operation and maintenance work and especially electrical work must only be executed by trained and authorized persons. This equipment must only be serviced by properly educated service specialists who have received general and system-specific training as performed by Philips Medical Systems.

WARNING

The system/component must be switched OFF during replacement work.
Any X-ray unit produces ionizing radiation which may be harmful if not properly controlled. Therefore, it is recommended that this equipment be operated in accordance with the guidelines set down by the national council on radiation protection.

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2. INSTALLATION

2.1. GENERAL

WARNING

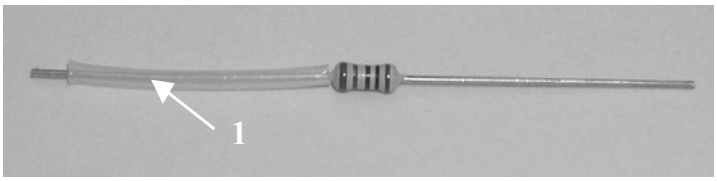
When handling PCBs take all necessary electro static discharge (ESD) precautions!

2.2. PREPARATORY WORK

- Turn OFF the generator.
- Turn OFF the room main switch.
- Remove the front cover of the generator.
- Turn OFF ENF1.

2.3. PREPARATION OF THE RESISTOR

- Push the longer insulating hose over the end of the resistor (**1**).



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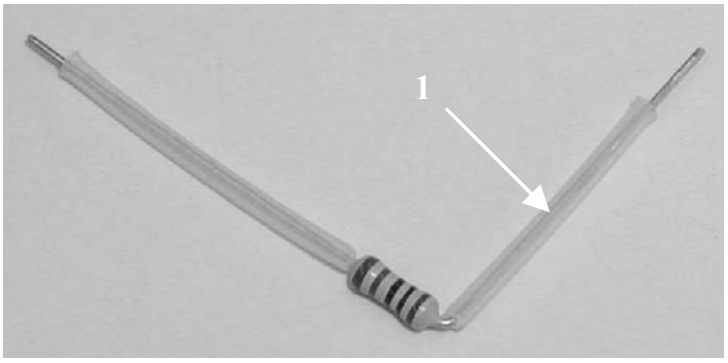
- Bend the other end of the resistor through 90 degrees and fit the short insulation hose (**1**).



- Bend the non-insulated part of the resistor at the end fit with the short insulation hose through 45 degrees (**2**).

- Before soldering the resistor on, shorten its non-insulated ends (**3**).

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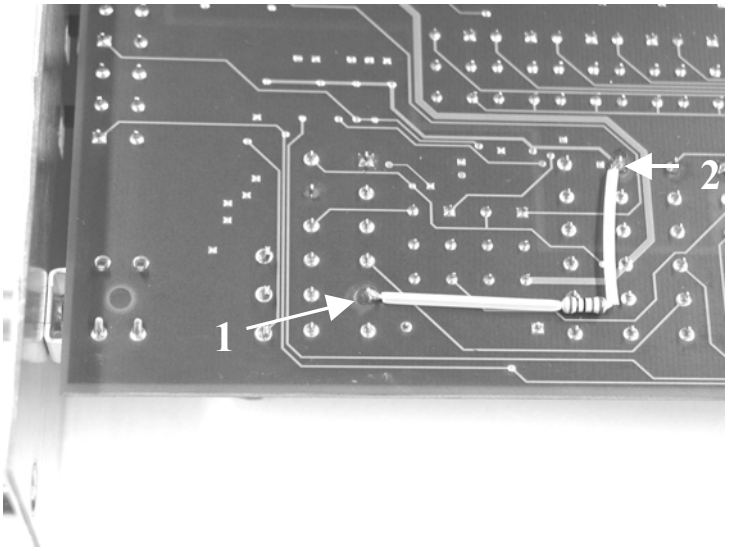
2.4. INSTALLATION DES WIDERSTANDES

- Remove PCB WA 102/ 2WA 102 or WB 102 from the generator.
- Solder on the end of the resistor with the long insulation hose to PCB WA 102/2WA 102 or WB 102 at K1:5 (**1**).
- Solder on the end of the resistor with the short insulation hose to PCB WA 102/2WA 102 or WB 102 at K13:1 (**2**).
- Reinstall PCB WA 102/ 2WA 102 or WB 102 at its original position.



2.5. FINAL TEST

- Switch ON ENF1.
- Reinstall the front cover of the generator.
- .Switch ON the room main switch.
- Switch ON the Generator.
- Test all applicable functions.

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